

Fireproof polystyrene foam, used for insulation e.g. in buildings, cars or furniture, comprises a mixture of styrene polymer, phenolic resin and expandable graphite

Publication number: DE19910257 (A1)

Publication date: 2000-09-21

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Classification:

- **International:** B29C44/44; C08J9/00; C08L25/06; C08L61/06; B29C44/34;

C08J9/00; C08L25/00; C08L61/00; (IPC1-7): C08J9/00;
B29C44/44; C08J9/14; C08K3/04; C08L25/06; C08L61/06

- **European:** B29C44/44; C08J9/00L25; C08J9/00L61; C08J9/00M; C08L25/06;
C08L61/06

Application number: DE19991010257 19990308

Priority number(s): DE19991010257 19990308

Cited documents:

DE1090853 (B)

US5721281 (A)

US5719199 (A)

US5650448 (A)

Abstract of DE 19910257 (A1)

Fire-resistant polystyrene-based foam comprises a mixture of (A) 90-10 wt% styrene polymer (PS) and (B) 10-90 wt% phenolic resin, with the addition of (C) 5-50 wt% expandable graphite (based on mixture A + B). Independent claims are also included for (a) a process for the production of PS particle mouldings by making a mixture of phenolic resin, hardener and blowing agent and/or other conventional additives, mixing this with unexpanded PS beads, mixing the phenolic resin-coated or -wetted beads with expandable graphite (C), introducing the mixture into a mould and sintering by the standard steam shock method; (b) an alternative process involving mixing PS beads with (C), combining the coated beads with the resin/hardener/blowing agent mixture, curing the phenolic resin in a mould and sintering as in (a).

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